

Redheads



keeps greens greener, traps cleaner!



You can spot the Redheads working more than a fairway away . . . powering the *Little Beaver* greens spiker and the *Top Rider*—our new top dresser. Both are busy at their jobs and both have that one thing in common: the interchangeable big red power head! And, joining the team, is the *Easy Rider*, our unique new trap rake.

And what beautiful features these new units have!

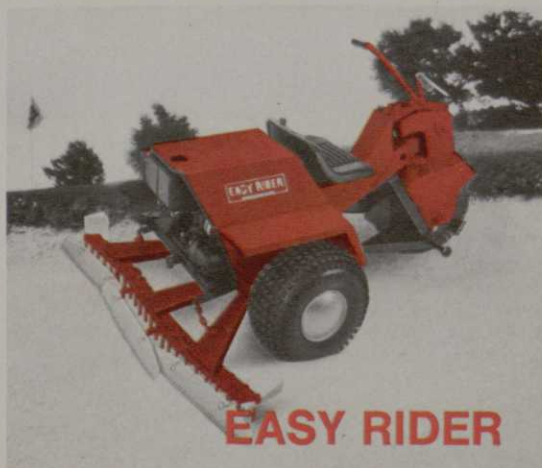
The **LITTLE BEAVER** spikes 1,000 square feet per minute, a 5,000 foot green in five minutes, 18 greens in two hours . . . and the operator *rides* not walks. It's the *only* spiker that can turn on a green without ripping.

TOP RIDER, the only riding top dresser, is easily and quickly attached to the Redhead, and is operated right from the seat at three times the speed of any other top dresser.

The remarkably maneuverable **EASY RIDER** has a full three-wheel drive, shortest turning radius, the highest bank-holding ability of any trap rake, plus adjustability to all sand conditions. And **ALL** of these units sell at low competitive prices!

This line-up of greens maintenance equipment comes to you from Smithco, creators of the famous **RED RIDER**—rugged king of utility carts.

The **first team of the turf . . .**
ready to go to work for you!

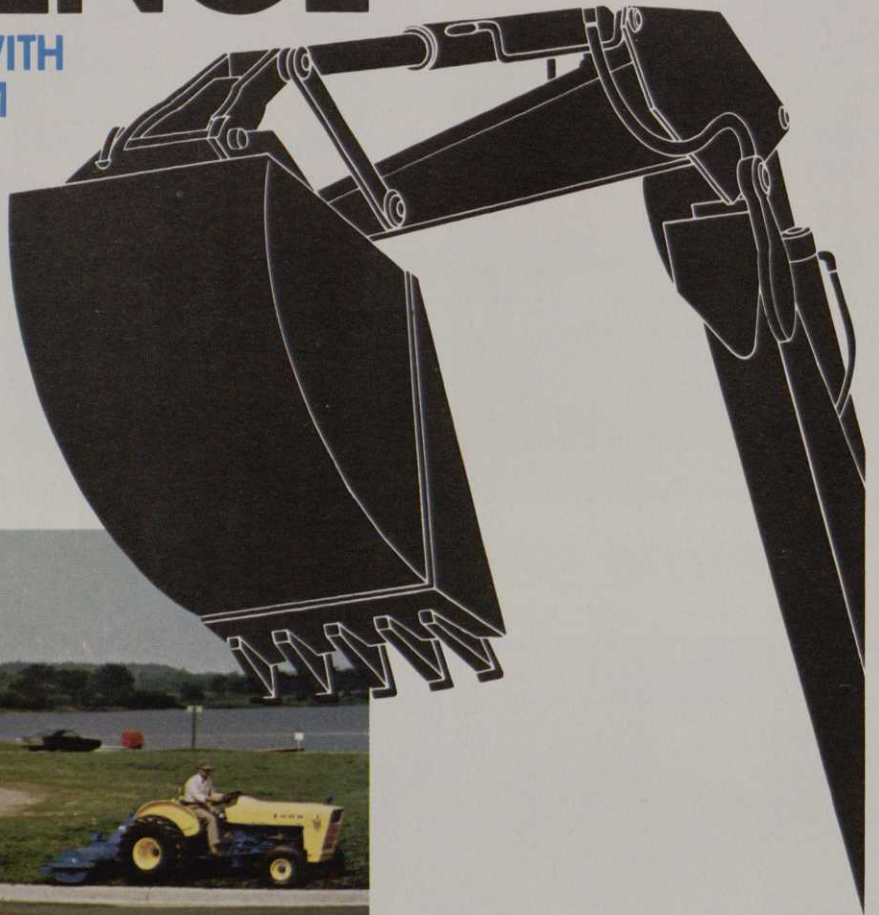


SMITHCO inc.

11 WEST AVENUE, WAYNE, PA. 19087

THE FORD DIFFERENCE

PRECISION DIGGING WITH THE POWER OF AN ARM INSTEAD OF A WRIST.



Many backhoes dig only with the curl of the bucket. They scoop instead of dig.

Ford is different. A Ford backhoe *pushes* the bucket through dirt. That's because boom and crowd cylinders are mounted *in-line*. So the full power of both cylinders can be applied at

once. You get the muscle of the entire backhoe digging in a strong, *arm-like* motion.

A Ford backhoe also has super-sensitive hydraulics and easy-acting controls. The result is *precision* bucket action in areas where you can't afford to tear up surrounding turf.

Your Ford tractor dealer will show you some other Ford backhoe differences. Like box-beam construction, arched boom design and a new line of Ford backhoe buckets!

NUMBER ONE ON WHEELS
FORD TRACTOR

Your Ford industrial tractor and equipment dealer is listed in the Yellow Pages under "Tractors" or "Construction-Equipment." See him for information on how to buy, lease, rent or finance.

For more information circle number 183 on card



also have the skills to change some chromosomes so that *Poa* wouldn't die out under heat stress. Joe Valentine produced a better grass under "no control" conditions. Surely the research centers at ag schools could change *Poa* seed so it is more durable. (Pennsylvania)

A—The Pennsylvania Turfgrass Council is doing all it can to help Penn State do the kind of research work that will benefit all turfgrass users. (Thank you for your membership.) *Poa* has been an object of interest for years, not only at Penn State but at other turfgrass research centers. Investigations have gone to both extremes: 1) how to keep it and make it a better grass and 2) how to get rid of it so that improved grasses can thrive. One thing is crystal clear—it takes excellent management regardless of the route you take.

Poa annua is not a simple, single apomictic strain as is Merion Kentucky bluegrass. It is highly diverse, from short-lived annuals to long-lived perennials. I've seen highly desirable patches of *Poa*

turf in old greens that persisted year after year throughout the summers. When seed from these patches was planted, something quite different developed. Yes, genetic improvement has been attempted, but it seems more logical to develop strong types of perennial turfgrasses that, under good management, can choke *Poa* to the point of extinction.

Several chemicals are being used to reduce *Poa* and to allow the better grasses to thrive. It seems to be a sensible approach.

Severe *Poa* invasions tend to point out certain inadequacies in management. I am not saying that your *Poa* problems resulted from mismanagement, but I would advise a thorough check of everything (water, phosphorus levels, N-K-S balance, lime competition by strong turf species, soil disturbance during period of *Poa* germination, to mention a few).

When you bring problems to the Turfgrass Council they will get attention. Don't hold your breath waiting for a change in *Poa*'s genetics. It takes 10 to 15 years to

develop and prove a new superior grass.

Q—We've heard about a soilless method of growing turf for sodding and we would like to know more about it. How does it work and what are the advantages? It is economical? (New York)

A—Two such proposals have come to my attention. The first was demonstrated at V.P.I., Blacksburg, Va., where Dr. Schmidt grew turf from seed in a soilless medium in shallow trays using a sterile porous cinder-like material on which to germinate the seeds. Recently I've learned of a British process that uses an artificial peat slurry with a wetting agent and foamed plastic as a carrier for the seeds. The advantages claimed are: 1) uniformity, 2) no grading, 3) rapid establishment when laid and 4) no weeds. The grass mat can be grown in four to five weeks, ready to be laid in the use area.

No data are available about cost. The idea has not caught on overwhelmingly. Yes, it does seem to have merit. □

Highland Colonial Bentgrass Great On All Greenways

- * One of the most economical of the fine-bladed grasses.
- * Winter hardy, it retains excellent cold-weather color and is ideal for winterseeding.
- * Very durable under heavy foot & vehicle traffic.
- * Adaptable to variety of soils & climates.
- * Thickens readily to heal scars.
- * Slow growth rate helps cut maintenance.
- * Thrives on close-cutting to 1/4 inch.
- * A handsome grass for rarely-mowed roughs.

write for *Free Brochures*

Answers to Questions
About Highland Bent

Highland Bent On
The Golf Course

Cultural Practices
Highland Bentgrass

HIGHLAND COLONIAL BENTGRASS COMMISSION

DEPT. A, SUITE 1, RIVERGROVE BLDG., 2111 FRONT STREET N.E.
SALEM, OREGON 97303

Longer
driving
starts
here.....and here!



DON'T HANDICAP YOUR GOLF CARS.

Use Trojan Golf Car Batteries with years of proven quality — standard of the industry is the Trojan J-170.

For extra rounds of golf plus extra months of service use the Trojan J-190 — or for the finest of all, the Trojan J-217.

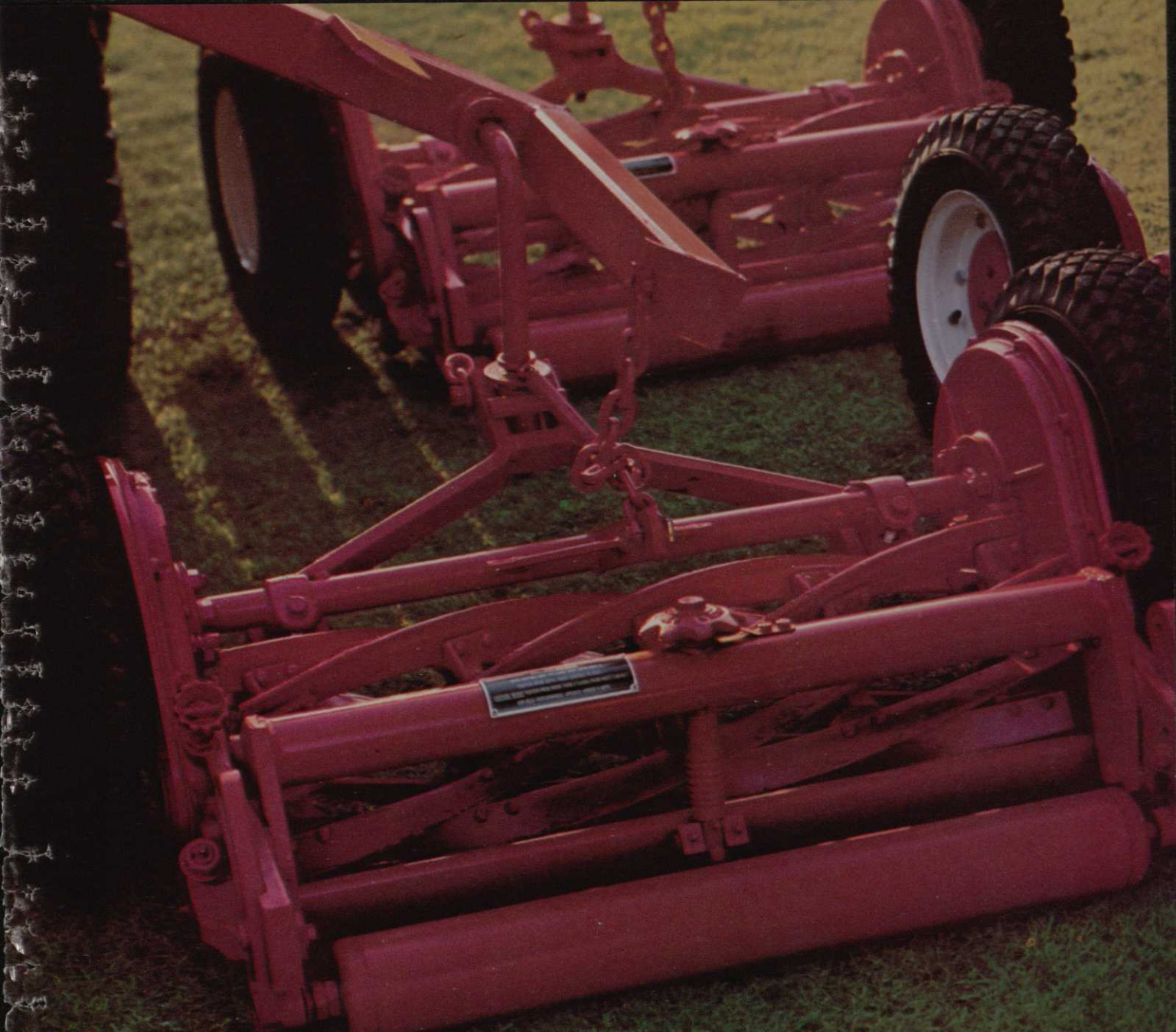
THE CLEAN QUIET GO FOR YOUR GOLF CARS...

GO ELECTRICALLY...GO TROJAN

TROJAN "MILEAGE MASTER" GOLF CAR BATTERIES

TROJAN BATTERY COMPANY • 9440 ANN STREET • SANTA FE SPRINGS, CALIFORNIA 90670

For more information circle number 211 on card



YOUR HAND IS YOUR TOOL KIT.

Toro's Spartan® 7 gang mower gives you more cutting time, by reducing your adjustment time up to 75%. A single knob adjusts the bedknife to the reel, easily, without tools. Increased structural rigidity allows it to hold the adjustment longer, and lowers maintenance costs.

Made with a 7 blade reel for semiformal and formal turf, the Spartan adjusts from ¼ inch to 2 inches. New 5-blade reel for golf roughs. And new 9-blade reel for Bent and Bermuda Fairways, and other fine turf areas, make the Spartan even more versatile.

Changeable wheels meet varying traction and transport needs. See the Spartan 7 at your local Toro Turf Distributor.



TORO

For more information circle number 215 on card



Why buy a matched set?

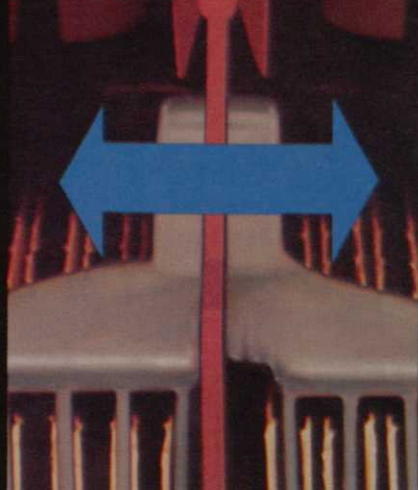
For better performance, of course.

That is exactly what we had in mind when we designed a golf car charger to match our powerful Power Breed Electric Vehicle batteries. And being battery makers first, we matched our charger to the batteries' needs, not vice-versa.

For instance, a battery's age

and temperature make certain demands on a charger. A factor we've considered with our *unique limited finish current* charger design. (Be glad to tell you more if you'll write.) Our controlled overcharge feature prevents excessive water consumption, yet always insures fully charged batteries. Wide ranges of temperature variations offer no problem because

HI-TORQUE® INTERCELL CONNECTORS
 SHORTEN POWER PATH 35% —
 REDUCE RESISTANCE 65%.



LIGHTWEIGHT! SAVES YOU 42 POUNDS
 PER SET OVER HARD RUBBER BATTERIES.



SIMPLE OPERATOR INTERFACE. ON-OFF
CONTROL. AC INDICATOR LIGHT.



CHARGER ASSURES MAXIMUM
BATTERY PERFORMANCE AND RELIABILITY;
LONGER LIFE; LOWER MAINTENANCE.



QUARTER TURN SPRAY LOK VENT CAPS
SPEED SERVICING — REDUCE ACID SPRAY.



MOST ADVANCED, AUTOMATED
PRODUCTION/TESTING LINE FOR PLASTIC
BATTERIES IN THE INDUSTRY.



of the designed-in temperature compensation feature. The simple on/off control starts the recharge cycle between rounds, and automatically maintains a full battery charge during storage periods, eliminating damaging battery sulfation.

We built the Power Breed Electric Vehicle battery to be the powerful endurance type battery modern

golf car use and abuse demands. Now, we offer the charger to match. Wouldn't it make sense to know what this matched set can do for you in terms of better, longer-lasting performance and reduced maintenance? Write GOULD INC., Sales Department, Automotive Battery Division, Post Office Box 3140, St. Paul, Minnesota 55165.

RUST & CORROSION-FREE, 3 COLOR COMBINATIONS . . . PLASTIC COATED
 STANDARD CONSOLES



Pretty . . . and so are the Standard complete consoles. Everything a golfer would want in one attractive package . . . a Cylolac® ball washer, tee data sign, Spike Kleener, Litter Caddie®. The tripod stand is plastic coated to maintain itself without fading, chipping or rusting with time and use.

The 'Professional' ball washer is unconditionally guaranteed against breakage within 1 full year of usage. If breakage occurs from any cause other than freezing, any Standard distributor is authorized to furnish you a replacement part without cost. If the 'Professional' does not give full satisfaction within 90 days use, you may return it to your distributor for full refund.

This is how confident we are the 'Professional' is tough and durable and will perform on your golf course. Write or call for details today.



STANDARD MFG. CO.

220 East Fourth St. Cedar Falls, Iowa 50613

For more information circle number 222 on card



CONVERSATIONS AMONG ARCHITECTS

Although it isn't much publicized, the annual meeting of the *American Society of Golf Course Architects* has a deep and far-reaching influence on golf.

Discussion among the architects would have been interesting, probably helpful, to the United States Golf Assn. and Royal & Ancient committees considering a change in golf ball specifications.

Architects admitted that rarely is there a par-five hole that can be built on a golf course for which amateur golfers pay. There are a few par-five holes for "strong backs and weak minds," but none of them are really noteworthy. With the present ball, most of those who can get sponsors for circuit work can reach the par fives in two big shots. Those who can't are close enough to chip or pitch for one putt.

The par-three holes or the short par fours are the ones that now separate the men from the boys and give the smart sharpshooters, who pay for the place, a chance to get a par with a four- or five-wood tee shot when the pro was using a medium iron.

In their casual talks, the architects searched, without much luck, for good, interesting, testing holes on courses where the design talent of expert playing professionals had been exercised. "They are good advertising, but are not by temperament or ability highly competent to design holes for the entertainment and testing of 99 per cent of golf players," was the architects' consensus on the collaboration of big name pros with experienced architects. It was suggested that there's big difference between golfers who play golf for

fun and those who play for money.

The talk recalled Tommy Armour's comment, "I know we've got a lot of great golf architects, but where are our great golf courses?"

The architects have answers in the sites they were given on which to design golf courses. The Almighty Himself couldn't have put a decent golf course on those areas.

The architects tried to define a first-class architect. That's a problem that club managers, superintendents and professionals have been trying to solve with their membership qualifications and certification programs.

Some genuinely great courses that have stood the test of years have been designed by amateurs. Among them is Merion, which Hugh Wilson designed after studying British golf courses for six months. He got a famed quarry hole on the order of the one at Harry Vardon's course. Ganton. Maybe the big achievement was in not having succeeding green committees change it.

The architects continued to debate about the relationship between the architect and the building contractor. Some architects maintained that the development and use of competent golf course contractors provide the best protection first-class golf course designers have. They asserted that the golf architect represents the client, as other architects do in other fields.

The reverse argument was that an architect with a fully-qualified construction superintendent and sound advice from an agronomist and watering and drainage experts did more for the client than fellows who were primarily experts in earth moving.

After years of trial and error and

success it was generally agreed that the United States Golf Assn. green construction specifications stood up well.

How to get a first-class construction foreman to represent the architect and think for him in emergencies was agreed to be one of the architect's toughest jobs after the course left the drawing board. Getting a genuinely first-class man to work with the course building crew and stay on as superintendent after the course is completed is one of the most difficult jobs in golf business, architects said. When such a man is secured, he is worth more than he is paid.

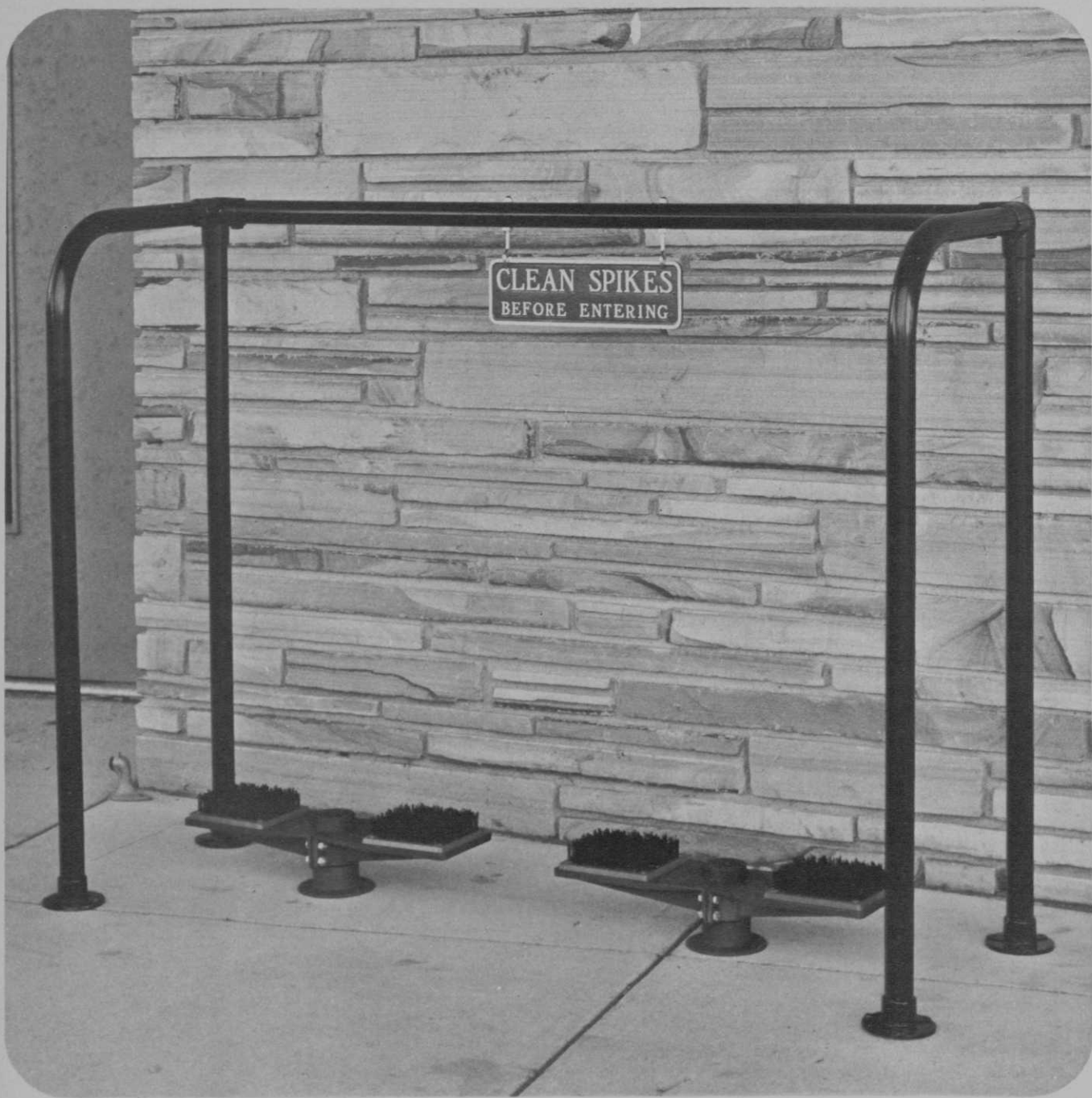
That kind of man saves the architect money, time and headaches plus the criticism architects get for not staying on the job. This man's advice in the choice of maintenance equipment is valuable, architects noted, because some equipment work very satisfactorily on some courses but don't work well on others.

Design and engineering to control the heavy and rising maintenance costs and difficulty in getting dependable labor accounted for considerable exchange of observations among architects.

Problems of coordinating golf course design and building sites, roads, landscaping and so on, in the golf-real estate developments, which are a large part of golf projects these days, were related. Too often the golf architect is called in too late in this planning and the right answer never can be found.

Most golfers seem to think they are golf architects. A few hours listening to validly competent, experienced architects talk about their responsibilities would be bright education for those who

continued on page 31



Wherever golf is played . . .

The Par Aide spike brush guard rail assembly is designed to provide maximum safety and convenience to the golfer while cleaning spikes. Constructed of 1½" steel tubing. Available in single or double accessory groups.



FOR COMPLETE LINE OF PAR AIDE GREENS
AND TEES EQUIPMENT—WRITE FOR CATALOG

PAR AIDE PRODUCTS COMPANY
296 NORTH PASCAL STREET • ST. PAUL, MINNESOTA 55104